



Anti-Rabbit IgG(Fab Fragment specific), AlpSdAbs[®] VHH(Biotin)

Summary

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| Code | 025-103-004 |
| Immunogen | Recombinant Rabbit IgG |
| Host | Alpaca pacous |
| Isotype | VHH domain of alpaca IgG2b/2c |
| Conjugate | Biotin-SP (long spacer) |
| Specificity | Fab region of Rabbit IgG |
| Cross-Reactivity | No cross-reactivity with mouse, human, cynomolgus, rat, goat IgG |
| Purity | Recombinant Expression and Affinity purified |
| Concentration | 1mg/mL |
| Formation | Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300 |
| Storage | Store at -20 °C(Avoid freeze / thaw cycles), Stable for 12 months at -20°C |

Description

Anti-Rabbit IgG(Fab Fragment specific), AlpSdAbs[®] VHH(Biotin) is designed for detecting Fab region of rabbit IgG specifically. Anti-Rabbit IgG(Fab Fragment specific), AlpSdAbs[®] VHH(Biotin) is based on monovalent, recombinant single domain antibodies to rabbit IgG(Fab Fragment specific) coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Rabbit IgG(Fab Fragment specific), AlpSdAbs[®] VHH(Biotin) reacts with the Fab region of rabbit IgG selectively, no reactivity with mouse, human, cynomolgus, rat, goat IgG.

Background

Rabbit research antibodies are widely used in life science research. So far, four isotypes have been identified (IgA, IgE, IgG, and IgM) in rabbits. Each isotype has a different heavy chain. Rabbit has only one IgG subclass. The whole IgG molecule possesses both the Fc region and the Fab region, which possessing the epitope-recognition site. The IgG contains two heavy and light chains. The heavy chain is about 50 KD and the light chain is about 25 KD. The common IgG is monomeric with a molecular weight of approximately 150 kD.

VHH are single-domain antibodies derived from the variable regions of heavy chain of Camelidae immunoglobulin. The size of VHH is extremely small(<15kDa) compared to other forms of antibody fragment, which significantly increase the permeability of VHH. Thus VHH is considered of great value for research, diagnostics and therapeutics.

Benefits

High lot-to-lot consistency
Increased sensitivity and higher affinity
Animal-free production

Suggested Working Concentration

| | |
|-------|-----------------|
| ELISA | 1:10000-1:50000 |
| WB | 1:10000-1:50000 |
| IP | 1-2ug/sample |

BLI (biolayer interferometry)
SPR (surface plasmon resonance)

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.

This product is for research use only and is not approved for use in humans or in clinical